

Abstract of disclosure

A system for inserting a weft thread into a shed of an air jet weaving machine (1) includes a thread store (21) with a measuring apparatus (23.1, 23.2), a plurality of air nozzles (3, 4, 5.1a-c to 5.na-c) for the insertion of the weft thread (2) and a control system (10) which is connected to the measuring apparatus (23.1, 23.2) in order to be able to control the compressed air supply of the air nozzles (3, 4, 5.1a-c to 5.na-c) in dependence on measurement values of the measuring apparatus (23.1, 23.2). Switch on points (x_j) are associated with the air nozzles (3, 4, 5.1a-c to 5.na-c), with the control system (10) charging one or more of the air nozzles (3, 4, 5.1a-c to 5.na-c) with compressed air as soon as a predictor value (x_F) for the position of the weft thread tip, which is formed with the help of the measurement values, reaches the switch on point (x_j) of the relevant air nozzle or air nozzles respectively.

Fig. 1